WTCI-707-LERA

DB06

• DOCUMENT DATA FORM

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Index to drawing book 18

Include work order no. and floor no. if applicable

Roll # (e.g., CORR-4): DB06	Doc. ID (report #, dwg. #):	
Document Date:	Document Author Name:	Author Organization:

KEYWORDS – HIGHLIGHT ALL THAT APPLY

Level 1

Bankers Trust	Project 6	WTC 4 - South Plaza Bldg.
Concourse	Project 7	WTC 5 - North Plaza Bldg.
Electrical Substation	Project 8	WTC 6 - Customs House
Liberty Plaza	WFC 1 - Oppenhiemer Dow	WTC 7
PATH Station	WFC 2 - Tower B	WTC Complex
Project 1	WFC 3 - American Express	WTC Plaza
Project 2	~~WFC 4 - Tower D~~	
Project 3	WTC 1 - North Tower	Add
Project 4	WTC 2 - South Tower	
Project 5	WTC 3 - Marriot Hotel	

Level 2

Accident analysis & risk	Fire protection	Police	Add
Architectural	Fire service	Security	
Data request	Management	Structural	
Emergency management	Mech./elec.	Tenant alterations	
Evacuation	News coverage		

Level 3

1993 explosion	Deflection	Human comfort	Smoke control
A/E fitout	Demolition	HVAC	Smoke test
A-242	Design	Index	Spandrel beam
A-36	~~Detailing~~	Inspection	Specifications Splices
A-497	Doors	Insulation	Sprinkler
Air cooled condensers	Drawings	Job number	Stability
Analysis	Eastern States Steel	Joist	Stairways
Angles	Egress	L-50	Standards
Antenna	Elevator	Lighting	Steel
Artifacts	Emergency communications	Loads	Steel composition
Asbestos	Equipment	Maintenance	Stiffness
Beams	Erection marks	Marking	Structural review
Bow tie	Escalator	Mesh reinforcement	Survivor
Bracing	Expansion joint	Mill inspection	Tenant list
Bridging truss	Exterior columns	Model	Testing
Calculations	Fabrication	Mullion	Tie
Carpet	Family member	Operations	Tolerances
Ceilings	Field survey	Paint	Triad
Certification	Fire alarms	Partition layout	Truss
Chillers	Fireproofing	Photos	Vestibule
Cladding	Fire spread	Pipes	Vibration
Collapse	Flammability	Plumbing	Walls
Columns	Floor	Probability, uncertainty	Water supply
Communication systems	Floor load	Quality control	Weather
Composite truss	Floor slab	Reinforcing (strengthening)	Weight
Computer output	Floor system	Renovation	Weld detail
Computer program	Floor trusses	Repair	Weld size
Concrete	Foundations	Research & Development	Welding
Connections	Fracture	Roof	Wind
Construction	Frame	Safety	Windows
Contract	Frame analysis	Schedule	Yield strength
Core beams	Frequency	Sculpture	
Core columns	Fuel	Security system	Add
Cranes	Furniture layout	Shear knuckle	
Criteria	H Generators	Shear test	
Dampers	Guidelines	Shop drawings	
Debris	Gypsum board	Shortening	
Deck	Hat truss	Slurry wall	

WTCI-707-LERA

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: DRAWING BOOK 18 - STRAP ANCHORS | DATE: 11/26/71

REVISIONS

18-AB0- 0	11/26/71	18-AB1-38	4/30/69	18-AB2-23	12/13/68	18-AB2-66.3	4/30/69	18-AB3-14	2/ 7/69
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18-A1 - 2	10/30/68	18-AB1-40	4/30/69	18-AB2-25	2/ 7/69	18-AB2-67.2	4/30/69	18-AB4- 2.1	2/ 7/69
18-A1 - 3	10/30/68	18-AB1-41	4/30/69	18-AB2-26	5/28/69	18-AB2-68	4/30/69	18-AB4- 2.2	2/ 7/69
18-B1 - 3.1	5/20/69	18-AB1-42	5/28/69	18-AB2-27	12/13/68	18-AB2-69.1	10/ 1/69	18-AB4- 3.1	2/ 7/69
18-A1 - 4	10/30/68	18-AB1-43	5/28/69	18-AB2-28	12/13/68	18-AB2-69.2	10/ 1/69	18-AB4- 3.2	2/ 7/69
18-B1 - 4.1	5/20/69	18-AB1-44	4/30/69	18-AB2-29	7/14/69	18-AB2-70	5/20/69	18-AB4- 3.3	2/ 7/69
18-A1 - 5	10/30/68	18-AB1-45	4/30/69	18-AB2-30	12/13/68	18-AB2-71	5/20/69	18-AB4- 4.1	2/ 7/69
18-B1 - 5.1	5/20/69	18-AB1-46	4/30/69	18-AB2-31	5/28/69	18-AB2-72	5/20/69	18-AB4- 4.2	2/ 7/69
18-A1 - 6	10/30/68	18-AB1-47	4/30/69	18-AB2-32	5/28/69	18-AB2-73	5/28/69	18-AB4- 4.3	2/ 7/69
18-B1 - 6.1	10/ 1/69	18-AB1-48	4/30/69	18-AB2-33	5/28/69	18-AB2-74.1	10/ 1/69	18-AB4- 4.4	2/ 7/69
18-A1 - 7	10/16/68	18-AB1-49	4/30/69	18-AB2-34	4/30/69	18-AB2-74.2	10/ 1/69	18-AB4- 4.5	2/ 7/69
18-B1 - 7.1	10/ 1/69	18-AB1-50	4/30/69	18-AB2-35	4/30/69	18-AB2-75	10/ 1/69	18-AB4- 5.1	2/ 7/69
18-A1 - 8	12/13/68	18-AB1-51	4/30/69	18-AB2-36	4/30/69	18-AB2-76	10/ 1/69	18-AB4- 5.2	2/ 7/69
18-B1 - 8.1	5/20/69	18-AB1-52	4/30/69	18-AB2-37	4/30/69	18-AB2-77.1	10/ 1/69	18-AB4- 5.3	2/ 7/69
18-AB1- 9	5/20/69	18-AB1-53	4/30/69	18-AB2-38	4/30/69	18-AB2-77.2	10/ 1/69	18-AB4- 5.4	2/ 7/69
18-AB1-10	5/20/69	18-AB1-54	4/30/69	18-AB2-39	4/30/69	18-AB2-78	10/ 1/69	18-AB4- 5.5	2/ 7/69
18-AB1-11	5/20/69	18-AB1-55	4/30/69	18-AB2-40	4/30/69	18-AB2-79.1	10/ 1/69	18-AB4- 5.6	2/ 7/69
18-AB1-12	5/20/69	18-AB1-56	4/30/69	18-AB2-41	4/30/69	18-AB2-79.2	10/ 1/69	18-AB4- 5.7	2/ 7/69
18-A1 -13	12/13/68	18-AB1-57	4/30/69	18-AB2-42.1	4/30/69	18-AB2-80	10/ 1/69	18-AB4- 6.1	2/ 7/69
18-B1 -13.1	10/ 1/69	18-AB1-58	4/30/69	18-AB2-42.2	4/30/69	18-AB2-81.1	10/ 1/69	18-AB4- 6.2	2/ 7/69
18-A1 -14	12/13/68	18-AB1-59	7/14/69	18-AB2-42.3	4/30/69	18-AB2-81.2	10/ 1/69	18-AB4- 7.1	11/ 7/69
18-B1 -14.1	10/ 1/69	18-AB1-60	7/14/69	18-AB2-43	4/30/69			18-AB4- 7.2	12/ 3/69
18-A1 -15.1	2/ 7/69			18-AB2-44	5/20/69			18-AB4- 7.3	12/ 3/69
18-B1 -15.2	10/ 1/69			18-AB2-50.1	10/16/68			18-AB4- 8.1	11/ 7/69
18-B1 -15.3	10/ 1/69			18-AB2-50.2	10/16/68			18-AB4- 8.2	11/ 7/69
18-AB1-16.1	2/ 7/69			18-AB2-51.1	2/ 7/69			18-AB4- 8.3	11/ 7/69
18-B1 -16.2	10/ 1/69	18-AB2- 1	10/ 1/69	18-AB2-51.2	2/ 7/69			18-AB4- 9	11/ 7/69
18-B1 -16.3	10/ 1/69	18-AB2- 2.1	2/ 7/69	18-AB2-52	10/30/68			18-AB4- 10.1	11/ 7/69
18-AB1-17	2/ 7/69	18-AB2- 2.2	4/30/69	18-AB2-53	10/30/68	18-AB3- 1	11/ 7/69	18-AB4- 10.2	11/ 7/69
18-AB1-18	2/ 7/69	18-AB2- 3	10/ 1/69	18-AB2-54.1	12/13/68	18-AB3- 2	2/ 7/69		
18-AB1-19	2/ 7/69	18-AB2- 4	10/ 1/69	18-AB2-54.2	5/20/69	18-AB3- 3.1	2/ 7/69		
18-AB1-20	2/ 7/69	18-AB2- 5	5/28/69	18-AB2-55	12/13/68	18-AB3- 3.2	2/ 7/69		
18-AB1-21	2/ 7/69	18-AB2- 6	4/30/69	18-AB2-56	12/13/68	18-AB3- 4.1	2/ 7/69		
18-AB1-22	2/ 7/69	18-AB2- 7	10/ 1/69	18-AB2-57.1	10/ 1/69	18-AB3- 4.2	2/ 7/69		
18-AB1-23	5/28/69	18-AB2- 8	10/16/68	18-AB2-57.2	12/13/68	18-AB3- 4.3	11/ 7/69		
18-AB1-24	5/28/69	18-AB2- 9	10/ 1/69	18-AB2-57.3	10/ 1/69	18-AB3- 4.4	11/ 7/69		
18-AB1-25	5/28/69	18-AB2-10	2/ 7/69	18-AB2-57.4	12/13/68	18-AB3- 4.5	11/ 7/69		
18-AB1-26	5/28/69	18-AB2-11	10/30/68	18-AB2-58	12/13/68	18-AB3- 4.6	11/ 7/69		
18-AB1-27	4/30/69	18-AB2-12	10/ 1/69	18-AB2-59	2/ 7/69	18-AB3- 5	2/ 7/69		
18-AB1-28	4/30/69	18-AB2-13	10/ 1/69	18-AB2-60	4/30/69	18-AB3- 6	2/ 7/69		
18-AB1-29	4/30/69	18-AB2-14	5/20/69	18-AB2-61	4/30/69	18-AB3- 7.1	2/ 7/69		
18-AB1-30	4/30/69	18-AB2-15	5/28/69	18-AB2-62.1	4/30/69	18-AB3- 7.2	2/ 7/69		
18-AB1-31	4/30/69	18-AB2-16	5/28/69	18-AB2-62.2	4/30/69	18-AB3- 8.1	2/ 7/69		
18-AB1-32	4/30/69	18-AB2-17	5/28/69	18-AB2-63	4/30/69	18-AB3- 8.2	2/ 7/69		
18-AB1-33	4/30/69	18-AB2-18	5/28/69	18-AB2-64.1	4/30/69	18-AB3- 9	2/ 7/69		
18-AB1-34	4/30/69	18-AB2-19	4/30/69	18-AB2-64.2	4/30/69	18-AB3-10	2/ 7/69		
18-AB1-35	4/30/69	18-AB2-20	4/30/69	18-AB2-65	4/30/69	18-AB3-11	2/ 7/69		
18-AB1-36	4/30/69	18-AB2-21	5/28/69	18-AB2-66.1	4/30/69	18-AB3-12	2/ 7/69		

707-L

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 18 - STRAP ANCHORS	1/02/70

REVISIONS

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18-A1 - 2	10/30/68	18-AB1-40	4/30/69	18-AB2-25	2/ 7/69	18-AB2-67.2	4/30/69	18-AB4- 2.1	2/ 7/69
18-A1 - 3	10/30/68	18-AB1-41	4/30/69	18-AB2-26	5/28/69	18-AB2-68	4/30/69	18-AB4- 2.2	2/ 7/69
18-B1 - 3.1	5/20/69	18-AB1-42	5/28/69	18-AB2-27	12/13/68	18-AB2-69.1	10/ 1/69	18-AB4- 3.1	2/ 7/69
18-A1 - 4	10/30/68	18-AB1-43	5/28/69	18-AB2-28	12/13/68	18-AB2-69.2	10/ 1/69	18-AB4- 3.2	2/ 7/69
18-B1 - 4.1	5/20/69	18-AB1-44	4/30/69	18-AB2-29	7/14/69	18-AB2-70	5/20/69	18-AB4- 3.3	2/ 7/69
18-A1 - 5	10/30/68	18-AB1-45	4/30/69	18-AB2-30	12/13/68	18-AB2-71	5/20/69	18-AB4- 4.1	2/ 7/69
18-B1 - 5.1	5/20/69	18-AB1-46	4/30/69	18-AB2-31	5/28/69	18-AB2-72	5/20/69	18-AB4- 4.2	2/ 7/69
18-A1 - 6	10/30/68	18-AB1-47	4/30/69	18-AB2-32	5/28/69	18-AB2-73	5/28/69	18-AB4- 4.3	2/ 7/69
18-B1 - 6.1	10/ 1/69	18-AB1-48	4/30/69	18-AB2-33	5/28/69	18-AB2-74.1	10/ 1/69	18-AB4- 4.4	2/ 7/69
18-A1 - 7	10/16/68	18-AB1-49	4/30/69	18-AB2-34	4/30/69	18-AB2-74.2	10/ 1/69	18-AB4- 4.5	2/ 7/69
18-B1 - 7.1	10/ 1/69	18-AB1-50	4/30/69	18-AB2-35	4/30/69	18-AB2-75	10/ 1/69	18-AB4- 5.1	2/ 7/69
18-A1 - 8	12/13/68	18-AB1-51	4/30/69	18-AB2-36	4/30/69	18-AB2-76	10/ 1/69	18-AB4- 5.2	2/ 7/69
18-B1 - 8.1	5/20/69	18-AB1-52	4/30/69	18-AB2-37	4/30/69	18-AB2-77.1	10/ 1/69	18-AB4- 5.3	2/ 7/69
18-AB1- 9	5/20/69	18-AB1-53	4/30/69	18-AB2-38	4/30/69	18-AB2-77.2	10/ 1/69	18-AB4- 5.4	2/ 7/69
18-AB1-10	5/20/69	18-AB1-54	4/30/69	18-AB2-39	4/30/69	18-AB2-78	10/ 1/69	18-AB4- 5.5	2/ 7/69
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18-B1 -13.1	10/ 1/69	18-AB1-58	4/30/69	18-AB2-42.2	4/30/69	18-AB2-81.1	10/ 1/69	18-AB4- 6.2	2/ 7/69
18-A1 -14	12/13/68	18-AB1-59	7/14/69	18-AB2-42.3	4/30/69	18-AB2-81.2	10/ 1/69	18-AB4- 7.1	11/ 7/69
18-B1 -14.1	10/ 1/69	18-AB1-60	7/14/69	18-AB2-43	4/30/69			18-AB4- 7.2	12/ 3/69
18-A1 -15.1	2/ 7/69			18-AB2-44	5/20/69			18-AB4- 7.3	12/ 3/69
18-B1 -15.2	10/ 1/69			18-AB2-50.1	10/16/68			18-AB4- 8.1	11/ 7/69
18-B1 -15.3	10/ 1/69			18-AB2-50.2	10/16/68			18-AB4- 8.2	11/ 7/69
18-AB1-16.1	2/ 7/69			18-AB2-51.1	2/ 7/69			18-AB4- 8.3	11/ 7/69
18-B1 -16.2	10/ 1/69	18-AB2- 1	10/ 1/69	18-AB2-51.2	2/ 7/69			18-AB4- 9	11/ 7/69
18-B1 -16.3	10/ 1/69	18-AB2- 2.1	2/ 7/69	18-AB2-52	10/30/68			18-AB4- 10.1	11/ 7/69
18-AB1-17	2/ 7/69	18-AB2- 2.2	4/30/69	18-AB2-53	10/30/68	18-AB3- 1	11/ 7/69	18-AB4- 10.2	11/ 7/69
18-AB1-18	2/ 7/69	18-AB2- 3	10/ 1/69	18-AB2-54.1	12/13/68	18-AB3- 2	2/ 7/69		
18-AB1-19	2/ 7/69	18-AB2- 4	10/ 1/69	18-AB2-54.2	5/20/69	18-AB3- 3.1	2/ 7/69		
18-AB1-20	2/ 7/69	18-AB2- 5	5/28/69	18-AB2-55	12/13/68	18-AB3- 3.2	2/ 7/69		
18-AB1-21	2/ 7/69	18-AB2- 6	4/30/69	18-AB2-56	12/13/68	18-AB3- 4.1	2/ 7/69		
18-AB1-22	2/ 7/69	18-AB2- 7	10/ 1/69	18-AB2-57.1	10/ 1/69	18-AB3- 4.2	2/ 7/69		
18-AB1-23	5/28/69	18-AB2- 8	10/16/68	18-AB2-57.2	12/13/68	18-AB3- 4.3	11/ 7/69		
18-AB1-24	5/28/69	18-AB2- 9	10/ 1/69	18-AB2-57.3	10/ 1/69	18-AB3- 4.4	11/ 7/69		
18-AB1-25	5/28/69	18-AB2-10	2/ 7/69	18-AB2-57.4	12/13/68	18-AB3- 4.5	11/ 7/69		
18-AB1-26	5/28/69	18-AB2-11	10/30/68	18-AB2-58	12/13/68	18-AB3- 4.6	11/ 7/69		
18-AB1-27	4/30/69	18-AB2-12	10/ 1/69	18-AB2-59	2/ 7/69	18-AB3- 5	2/ 7/69		
18-AB1-28	4/30/69	18-AB2-13	10/ 1/69	18-AB2-60	4/30/69	18-AB3- 6	2/ 7/69		
18-AB1-29	4/30/69	18-AB2-14	5/20/69	18-AB2-61	4/30/69	18-AB3- 7.1	2/ 7/69		
18-AB1-30	4/30/69	18-AB2-15	5/28/69	18-AB2-62.1	4/30/69	18-AB3- 7.2	2/ 7/69		
18-AB1-31	4/30/69	18-AB2-16	5/28/69	18-AB2-62.2	4/30/69	18-AB3- 8.1	2/ 7/69		
18-AB1-32	4/30/69	18-AB2-17	5/28/69	18-AB2-63	4/30/69	18-AB3- 8.2	2/ 7/69		
18-AB1-33	4/30/69	18-AB2-18	5/28/69	18-AB2-64.1	4/30/69	18-AB3- 9	2/ 7/69		
18-AB1-34	4/30/69	18-AB2-19	4/30/69	18-AB2-64.2	4/30/69	18-AB3-10	2/ 7/69		
18-AB1-35	4/30/69	18-AB2-20	4/30/69	18-AB2-65	4/30/69	18-AB3-11	2/ 7/69		
18-AB1-36	4/30/69	18-AB2-21	5/28/69	18-AB2-66.1	4/30/69	18-AB3-12	2/ 7/69		
18-AB1-37	4/30/69	18-AB2-22	5/20/69	18-AB2-66.2	4/30/69	18-AB3-13	2/ 7/69		
18-AB1-38	4/30/69	18-AB2-23	12/13/68						

LICENSED PROFESSIONAL ENGINEER
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 18 - STRAP ANCHORS	12/ 1/69

REVISIONS

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18-A1 - 2	10/30/68	18-AB1-40	4/30/69	18-AB2-25	2/ 7/69	18-AB2-67.2	4/30/69	18-AB4- 2.1	2/ 7/69
18-A1 - 3	10/30/68	18-AB1-41	4/30/69	18-AB2-26	5/28/69	18-AB2-68	4/30/69	18-AB4- 2.2	2/ 7/69
18-B1 - 3.1	5/20/69	18-AB1-42	5/28/69	18-AB2-27	12/13/68	18-AB2-69.1	10/ 1/69	18-AB4- 3.1	2/ 7/69
18-A1 - 4	10/30/68	18-AB1-43	5/28/69	18-AB2-28	12/13/68	18-AB2-69.2	10/ 1/69	18-AB4- 3.2	2/ 7/69
18-B1 - 4.1	5/20/69	18-AB1-44	4/30/69	18-AB2-29	7/14/69	18-AB2-70	5/20/69	18-AB4- 3.3	2/ 7/69
18-A1 - 5	10/30/68	18-AB1-45	4/30/69	18-AB2-30	12/13/68	18-AB2-71	5/20/69	18-AB4- 4.1	2/ 7/69
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18-A1 - 6	10/30/68	18-AB1-47	4/30/69	18-AB2-32	5/28/69	18-AB2-73	5/28/69	18-AB4- 4.3	2/ 7/69
18-B1 - 6.1	10/ 1/69	18-AB1-48	4/30/69	18-AB2-33	5/28/69	18-AB2-74.1	10/ 1/69	18-AB4- 4.4	2/ 7/69
18-A1 - 7	10/16/68	18-AB1-49	4/30/69	18-AB2-34	4/30/69	18-AB2-74.2	10/ 1/69	18-AB4- 4.5	2/ 7/69
18-B1 - 7.1	10/ 1/69	18-AB1-50	4/30/69	18-AB2-35	4/30/69	18-AB2-75	10/ 1/69	18-AB4- 5.1	2/ 7/69
18-A1 - 8	12/13/68	18-AB1-51	4/30/69	18-AB2-36	4/30/69	18-AB2-76	10/ 1/69	18-AB4- 5.2	2/ 7/69
18-B1 - 8.1	5/20/69	18-AB1-52	4/30/69	18-AB2-37	4/30/69	18-AB2-77.1	10/ 1/69	18-AB4- 5.3	2/ 7/69
18-AB1- 9	5/20/69	18-AB1-53	4/30/69	18-AB2-38	4/30/69	18-AB2-77.2	10/ 1/69	18-AB4- 5.4	2/ 7/69
18-AB1-10	5/20/69	18-AB1-54	4/30/69	18-AB2-39	4/30/69	18-AB2-78	10/ 1/69	18-AB4- 5.5	2/ 7/69
18-AB1-11	5/20/69	18-AB1-55	4/30/69	18-AB2-40	4/30/69	18-AB2-79.1	10/ 1/69	18-AB4- 5.6	2/ 7/69
18-AB1-12	5/20/69	18-AB1-56	4/30/69	18-AB2-41	4/30/69	18-AB2-79.2	10/ 1/69	18-AB4- 5.7	2/ 7/69
18-A1 -13	12/13/68	18-AB1-57	4/30/69	18-AB2-42.1	4/30/69	18-AB2-80	10/ 1/69	18-AB4- 6.1	2/ 7/69
18-B1 -13.1	10/ 1/69	18-AB1-58	4/30/69	18-AB2-42.2	4/30/69	18-AB2-81.1	10/ 1/69	18-AB4- 6.2	2/ 7/69
18-A1 -14	12/13/68	18-AB1-59	7/14/69	18-AB2-42.3	4/30/69	18-AB2-81.2	10/ 1/69	18-AB4- 7.1	11/ 7/69
18-B1 -14.1	10/ 1/69	18-AB1-60	7/14/69	18-AB2-43	4/30/69			18-AB4- 7.2	11/ 7/69
18-A1 -15.1	2/ 7/69			18-AB2-44	5/20/69			18-AB4- 7.3	11/ 7/69
18-B1 -15.2	10/ 1/69			18-AB2-50.1	10/16/68			18-AB4- 8.1	11/ 7/69
18-B1 -15.3	10/ 1/69			18-AB2-50.2	10/16/68			18-AB4- 8.2	11/ 7/69
18-AB1-16.1	2/ 7/69			18-AB2-51.1	2/ 7/69			18-AB4- 8.3	11/ 7/69
18-B1 -16.2	10/ 1/69	18-AB2- 1	10/ 1/69	18-AB2-51.2	2/ 7/69			18-AB4- 9	11/ 7/69
18-B1 -16.3	10/ 1/69	18-AB2- 2.1	2/ 7/69	18-AB2-52	10/30/68			18-AB4- 10.1	11/ 7/69
18-AB1-17	2/ 7/69	18-AB2- 2.2	4/30/69	18-AB2-53	10/30/68	18-AB3- 1	11/ 7/69	18-AB4- 10.2	11/ 7/69
18-AB1-18	2/ 7/69	18-AB2- 3	10/ 1/69	18-AB2-54.1	12/13/68	18-AB3- 2	2/ 7/69		
18-AB1-19	2/ 7/69	18-AB2- 4	10/ 1/69	18-AB2-54.2	5/20/69	18-AB3- 3.1	2/ 7/69		
18-AB1-20	2/ 7/69	18-AB2- 5	5/28/69	18-AB2-55	12/13/68	18-AB3- 3.2	2/ 7/69		
18-AB1-21	2/ 7/69	18-AB2- 6	4/30/69	18-AB2-56	12/13/68	18-AB3- 4.1	2/ 7/69		
18-AB1-22	2/ 7/69	18-AB2- 7	10/ 1/69	18-AB2-57.1	10/ 1/69	18-AB3- 4.2	2/ 7/69		
18-AB1-23	5/28/69	18-AB2- 8	10/16/68	18-AB2-57.2	12/13/68	18-AB3- 4.3	11/ 7/69		
18-AB1-24	5/28/69	18-AB2- 9	10/ 1/69	18-AB2-57.3	10/ 1/69	18-AB3- 4.4	11/ 7/69		
18-AB1-25	5/28/69	18-AB2-10	2/ 7/69	18-AB2-57.4	12/13/68	18-AB3- 4.5	11/ 7/69		
18-AB1-26	5/28/69	18-AB2-11	10/30/68	18-AB2-58	12/13/68	18-AB3- 4.6	11/ 7/69		
18-AB1-27	4/30/69	18-AB2-12	10/ 1/69	18-AB2-59	2/ 7/69	18-AB3- 5	2/ 7/69		
18-AB1-28	4/30/69	18-AB2-13	10/ 1/69	18-AB2-60	4/30/69	18-AB3- 6	2/ 7/69		
18-AB1-29	4/30/69	18-AB2-14	5/20/69	18-AB2-61	4/30/69	18-AB3- 7.1	2/ 7/69		
18-AB1-30	4/30/69	18-AB2-15	5/28/69	18-AB2-62.1	4/30/69	18-AB3- 7.2	2/ 7/69		
18-AB1-31	4/30/69	18-AB2-16	5/28/69	18-AB2-62.2	4/30/69	18-AB3- 8.1	2/ 7/69		
18-AB1-32	4/30/69	18-AB2-17	5/28/69	18-AB2-63	4/30/69	18-AB3- 8.2	2/ 7/69		
18-AB1-33	4/30/69	18-AB2-18	5/28/69	18-AB2-64.1	4/30/69	18-AB3- 9	2/ 7/69		
18-AB1-34	4/30/69	18-AB2-19	4/30/69	18-AB2-64.2	4/30/69	18-AB3-10	2/ 7/69		
18-AB1-35	4/30/69	18-AB2-20	4/30/69	18-AB2-65	4/30/69	18-AB3-11	2/ 7/69		
18-AB1-36	4/30/69	18-AB2-21	5/28/69	18-AB2-66.1	4/30/69	18-AB3-12	2/ 7/69		
18-AB1-37	4/30/69	18-AB2-22	5/20/69	18-AB2-66.2	4/30/69	18-AB3-13	2/ 7/69		

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 18 - STRAP ANCHORS	10/ 1/69

REVISIONS

18-AB1- 1	10/ 1/69	18-AB1-39	4/30/69	18-AB2-24	10/ 1/69	18-AB2-67.1	4/30/69	18-AB4- 3.1	2/ 7/69
18-A1 - 2	10/30/68	18-AB1-40	4/30/69	18-AB2-25	2/ 7/69	18-AB2-67.2	4/30/69	18-AB4- 3.2	2/ 7/69
18-A1 - 3	10/30/68	18-AB1-41	4/30/69	18-AB2-26	5/28/69	18-AB2-68	4/30/69	18-AB4- 3.3	2/ 7/69
18-B1 - 3.1	5/20/69	18-AB1-42	5/28/69	18-AB2-27	12/13/68	18-AB2-69.1	10/ 1/69	18-AB4- 4.1	2/ 7/69
18-A1 - 4	10/30/68	18-AB1-43	5/28/69	18-AB2-28	12/13/68	18-AB2-69.2	10/ 1/69	18-AB4- 4.2	2/ 7/69
18-B1 - 4.1	5/20/69	18-AB1-44	4/30/69	18-AB2-29	7/14/69	18-AB2-70	5/20/69	18-AB4- 4.3	2/ 7/69
18-A1 - 5	10/30/68	18-AB1-45	4/30/69	18-AB2-30	12/13/68	18-AB2-71	5/20/69	18-AB4- 4.4	2/ 7/69
18-B1 - 5.1	5/20/69	18-AB1-46	4/30/69	18-AB2-31	5/28/69	18-AB2-72	5/20/69	18-AB4- 4.5	2/ 7/69
18-A1 - 6	10/30/68	18-AB1-47	4/30/69	18-AB2-32	5/28/69	18-AB2-73	5/28/69	18-AB4- 5.1	2/ 7/69
18-B1 - 6.1	10/ 1/69	18-AB1-48	4/30/69	18-AB2-33	5/28/69	18-AB2-74.1	10/ 1/69	18-AB4- 5.2	2/ 7/69
18-A1 - 7	10/15/68	18-AB1-49	4/30/69	18-AB2-34	4/30/69	18-AB2-74.2	10/ 1/69	18-AB4- 5.3	2/ 7/69
18-B1 - 7.1	10/ 1/69	18-AB1-50	4/30/69	18-AB2-35	4/30/69	18-AB2-75	10/ 1/69	18-AB4- 5.4	2/ 7/69
18-A1 - 8	12/13/68	18-AB1-51	4/30/69	18-AB2-36	4/30/69	18-AB2-76	10/ 1/69	18-AB4- 5.5	2/ 7/69
18-B1 - 8.1	5/20/69	18-AB1-52	4/30/69	18-AB2-37	4/30/69	18-AB2-77.1	10/ 1/69	18-AB4- 5.6	2/ 7/69
18-AB1- 9	5/20/69	18-AB1-53	4/30/69	18-AB2-38	4/30/69	18-AB2-77.2	10/ 1/69	18-AB4- 5.7	2/ 7/69
18-AB1-10	5/20/69	18-AB1-54	4/30/69	18-AB2-39	4/30/69	18-AB2-78	10/ 1/69	18-AB4- 6.1	2/ 7/69
18-AB1-11	5/20/69	18-AB1-55	4/30/69	18-AB2-40	4/30/69	18-AB2-79.1	10/ 1/69	18-AB4- 6.2	2/ 7/69
18-AB1-12	5/20/69	18-AB1-56	4/30/69	18-AB2-41	4/30/69	18-AB2-79.2	10/ 1/69		
18-A1 -13	12/13/68	18-AB1-57	4/30/69	18-AB2-42.1	4/30/69	18-AB2-80	10/ 1/69		
18-B1 -13.1	10/ 1/69	18-AB1-58	4/30/69	18-AB2-42.2	4/30/69	18-AB2-81.1	10/ 1/69		
18-A1 -14	12/13/68	18-AB1-59	7/14/69	18-AB2-42.3	4/30/69	18-AB2-81.2	10/ 1/69		
18-B1 -14.1	10/ 1/69	18-AB1-60	7/14/69	18-AB2-43	4/30/69				
18-A1 -15.1	2/ 7/69			18-AB2-44	5/20/69				
18-B1 -15.2	10/ 1/69			18-AB2-50.1	10/16/68				
18-B1 -15.3	10/ 1/69			18-AB2-50.2	10/16/68				
18-AB1-16.1	2/ 7/69			18-AB2-51.1	2/ 7/69	18-AB3- 1	5/ 1/69		
18-B1 -16.2	10/ 1/69	18-AB2- 1	10/ 1/69	18-AB2-51.2	2/ 7/69	18-AB3- 2	2/ 7/69		
18-B1 -16.3	10/ 1/69	18-AB2- 2.1	2/ 7/69	18-AB2-52	10/30/68	18-AB3- 3.1	2/ 7/69		
18-AB1-17	2/ 7/69	18-AB2- 2.2	4/30/69	18-AB2-53	10/30/68	18-AB3- 3.2	2/ 7/69		
18-AB1-18	2/ 7/69	18-AB2- 3	10/ 1/69	18-AB2-54.1	12/13/68	18-AB3- 4.1	2/ 7/69		
18-AB1-19	2/ 7/69	18-AB2- 4	10/ 1/69	18-AB2-54.2	5/20/69	18-AB3- 4.2	2/ 7/69		
18-AB1-20	2/ 7/69	18-AB2- 5	5/28/69	18-AB2-55	12/13/68	18-AB3- 5	2/ 7/69		
18-AB1-21	2/ 7/69	18-AB2- 6	4/30/69	18-AB2-56	12/13/68	18-AB3- 6	2/ 7/69		
18-AB1-22	2/ 7/69	18-AB2- 7	10/ 1/69	18-AB2-57.1	10/ 1/69	18-AB3- 7.1	2/ 7/69		
18-AB1-23	5/28/69	18-AB2- 8	10/16/68	18-AB2-57.2	12/13/68	18-AB3- 7.2	2/ 7/69		
18-AB1-24	5/28/69	18-AB2- 9	10/ 1/69	18-AB2-57.3	10/ 1/69	18-AB3- 8.1	2/ 7/69		
18-AB1-25	5/28/69	18-AB2-10	2/ 7/69	18-AB2-57.4	12/13/68	18-AB3- 8.2	2/ 7/69		
18-AB1-26	5/28/69	18-AB2-11	10/30/68	18-AB2-58	12/13/68	18-AB3- 9	2/ 7/69		
18-AB1-27	4/30/69	18-AB2-12	10/ 1/69	18-AB2-59	2/ 7/69	18-AB3-10	2/ 7/69		
18-AB1-28	4/30/69	18-AB2-13	10/ 1/69	18-AB2-60	4/30/69	18-AB3-11	2/ 7/69		
18-AB1-29	4/30/69	18-AB2-14	5/20/69	18-AB2-61	4/30/69	18-AB3-12	2/ 7/69		
18-AB1-30	4/30/69	18-AB2-15	5/28/69	18-AB2-62.1	4/30/69	18-AB3-13	2/ 7/69		
18-AB1-31	4/30/69	18-AB2-16	5/20/69	18-AB2-62.2	4/30/69	18-AB3-14	2/ 7/69		
18-AB1-32	4/30/69	18-AB2-17	5/28/69	18-AB2-63	4/30/69				
18-AB1-33	4/30/69	18-AB2-18	5/28/69	18-AB2-64.1	4/30/69				
18-AB1-34	4/30/69	18-AB2-19	4/30/69	18-AB2-64.2	4/30/69				
18-AB1-35	4/30/69	18-AB2-20	4/30/69	18-AB2-65	4/30/69				
18-AB1-36	4/30/69	18-AB2-21	5/28/69	18-AB2-66.1	4/30/69	18-AB4- 1	5/ 1/69		
18-AB1-37	4/30/69	18-AB2-22	5/20/69	18-AB2-66.2	4/30/69	18-AB4- 2.1	2/ 7/69		
18-AB1-38	4/30/69	18-AB2-23	12/13/68	18-AB2-66.3	4/30/69	18-AB4- 2.2	2/ 7/69		

LICENSED PROFESSIONAL ENGINEER
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 18 - STRAP ANCHORS	9/ 2/69

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18-AA1- 1	5/28/69	18-AB1-45	4/30/69	18-AB2-32	5/28/69		
18-A1 - 2	10/30/68	18-AB1-46	4/30/69	18-AB2-33	5/28/69		
18-A1 - 3	10/30/68	18-AB1-47	4/30/69	18-AB2-34	4/30/69	18-AB3- 1	5/ 1/69
18-B1 - 3.1	5/20/69	18-AB1-48	4/30/69	18-AB2-35	4/30/69	18-AB3- 2	2/ 7/69
18-A1 - 4	10/30/68	18-AB1-49	4/30/69	18-AB2-36	4/30/69	18-AB3- 3.1	2/ 7/69
18-B1 - 5.1	5/20/69	18-AB1-50	4/30/69	18-AB2-37	4/30/69	18-AB3- 3.2	2/ 7/69
18-A1 - 5	10/30/68	18-AB1-51	4/30/69	18-AB2-38	4/30/69	18-AB3- 4.1	2/ 7/69
18-B1 - 5.1	5/20/69	18-AB1-52	4/30/69	18-AB2-39	4/30/69	18-AB3- 4.2	2/ 7/69
18-A1 - 6	10/30/68	18-AB1-53	4/30/69	18-AB2-40	4/30/69	18-AB3- 5	2/ 7/69
18-B1 - 6.1	5/20/69	18-AB1-54	4/30/69	18-AB2-41	4/30/69	18-AB3- 6	2/ 7/69
18-A1 - 7	10/16/68	18-AB1-55	4/30/69	18-AB2-42.1	4/30/69	18-AB3- 7.1	2/ 7/69
18-B1 - 7.1	5/20/69	18-AB1-56	4/30/69	18-AB2-42.2	4/30/69	18-AB3- 7.2	2/ 7/69
18-A1 - 8	12/13/68	18-AB1-57	4/30/69	18-AB2-42.3	4/30/69	18-AB3- 8.1	2/ 7/69
18-B1 - 8.1	5/20/69	18-AB1-58	4/30/69	18-AB2-43	4/30/69	18-AB3- 8.2	2/ 7/69
18-AA1- 9	5/20/69	18-AB1-59	7/14/69	18-AB2-44	5/20/69	18-AB3- 9	2/ 7/69
18-AB1-10	5/20/69	18-AB1-60	7/14/69	18-AB2-50.1	10/16/68	18-AB3-10	2/ 7/69
18-AB1-11	5/20/69			18-AB2-50.2	10/16/68	18-AB3-11	2/ 7/69
18-AB1-12	5/20/69			18-AB2.51.1	2/ 7/69	18-AB3-12	2/ 7/69
18-A1 -13	12/13/68	18-AB2- 1	5/28/69	18-AB2-51.2	2/ 7/69	18-AB3-13	2/ 7/69
18-A1 -14	12/13/68	18-AB2- 2.1	2/ 7/69	18-AB2-52	10/30/68	18-AB3-14	2/ 7/69
18-A1 -15.1	2/ 7/69	18-AB2- 2.2	4/30/69	18-AB2-53	10/30/68		
18-AB1-16.1	2/ 7/69	18-AB2- 3	5/28/69	18-AB2-54.1	12/13/68		
18-AB1-17	2/ 7/69	18-AB2- 4	5/20/69	18-AB2-54.2	5/20/69	18-AB4- 1	5/ 1/69
18-AB1-18	2/ 7/69	18-AB2- 5	5/28/69	18-AB2-55	12/13/68	18-AB4- 2.1	2/ 7/69
18-AB1-19	2/ 7/69	18-AB2- 6	4/30/69	18-AB2-56	12/13/68	18-AB4- 2.2	2/ 7/69
18-AB1-20	2/ 7/69	18-AB2- 7	5/28/69	18-AB2-57.1	12/13/68	18-AB4- 3.1	2/ 7/69
18-AB1-21	2/ 7/69	18-AB2- 8	10/16/68	18-AB2-57.2	12/13/68	18-AB4- 3.2	2/ 7/69
18-AB1-22	2/ 7/69	18-AB2- 9	5/28/69	18-AB2-57.3	12/13/68	18-AB4- 3.3	2/ 7/69
18-AB1-23	5/28/69	18-AB2-10	2/ 7/69	18-AB2-57.4	12/13/68	18-AB4- 4.1	2/ 7/69
18-AB1-24	5/28/69	18-AB2-11	10/30/68	18-AB2-58	12/13/68	18-AB4- 4.2	2/ 7/69
18-AB1-25	5/28/69	18-AB2-12	4/30/69	18-AB2-59	2/ 7/69	18-AB4- 4.3	2/ 7/69
18-AB1-26	5/28/69	18-AB2-13	4/30/69	18-AB2-60	4/30/69	18-AB4- 4.4	2/ 7/69
18-AB1-27	4/30/69	18-AB2-14	5/20/69	18-AB2-61	4/30/69	18-AB4- 4.5	2/ 7/69
18-AB1-28	4/30/69	18-AB2-15	5/28/69	18-AB2-62.1	4/30/69	18-AB4- 5.1	2/ 7/69
18-AB1-29	4/30/69	18-AB2-16	5/28/69	18-AB2-62.2	4/30/69	18-AB4- 5.2	2/ 7/69
18-AB1-30	4/30/69	18-AB2-17	5/28/69	18-AB2-63	4/30/69	18-AB4- 5.3	2/ 7/69
18-AB1-31	4/30/69	18-AB2-18	5/28/69	18-AB2-64.1	4/30/69	18-AB4- 5.4	2/ 7/69
18-AB1-32	4/30/69	18-AB2-19	4/30/69	18-AB2-64.2	4/30/69	18-AB4- 5.5	2/ 7/69
18-AB1-33	4/30/69	18-AB2-20	4/30/69	18-AB2-65	4/30/69	18-AB4- 5.6	2/ 7/69
18-AA1-34	4/30/69	18-AB2-21	5/28/69	18-AB2-66.1	4/30/69	18-AB4- 5.7	2/ 7/69
18-AB1-35	4/30/69	18-AB2-22	5/20/69	18-AB2-66.2	4/30/69	18-AB4- 6.1	2/ 7/69
18-AB1-36	4/30/69	18-AB2-23	12/13/68	18-AB2-66.3	4/30/69	18-AB4- 6.2	2/ 7/69
18-AB1-37	4/30/69	18-AB2-24	5/28/69	18-AB2-67.1	4/30/69		
18-AA1-38	4/30/69	18-AB2-25	2/ 7/69	18-AB2-67.2	4/30/69		
18-AB1-39	4/30/69	18-AB2-26	5/28/69	18-AB2-68	4/30/69		
18-AB1-40	4/30/69	18-AB2-27	12/13/68	18-AB2-69	5/20/69		
18-AB1-41	4/30/69	18-AB2-28	12/13/68	18-AB2-70	5/20/69		
18-AB1-42	5/28/69	18-AB2-29	7/14/69	18-AB2-71	5/20/69		
18-AB1-43	5/28/69	18-AB2-30	12/13/68	18-AB2-72	5/20/69		

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PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 18 - STRAP ANCHORS	7/ 1/69

REVISIONS

18-AB1- 1	5/28/69	18-AB1-45	4/30/69	18-AB2-34	4/30/69	18-AB3- 1	5/ 1/69
18-A1 - 2	10/30/68	18-AB1-46	4/30/69	18-AB2-35	4/30/69	18-AB3- 2	2/ 7/69
18-A1 - 3	10/30/68	18-AB1-47	4/30/69	18-AB2-36	4/30/69	18-AB3- 3.1	2/ 7/69
18-B1 - 3.1	5/20/69	18-AB1-48	4/30/69	18-AB2-37	4/30/69	18-AB3- 3.2	2/ 7/69
18-A1 - 4	10/30/68	18-AB1-49	4/30/69	18-AB2-38	4/30/69	18-AB3- 4.1	2/ 7/69
18-B1 - 4.1	5/20/69	18-AB1-50	4/30/69	18-AB2-39	4/30/69	18-AB3- 4.2	2/ 7/69
18-A1 - 5	10/30/68	18-AB1-51	4/30/69	18-AB2-40	4/30/69	18-AB3- 5	2/ 7/69
18-B1 - 5.1	5/20/69	18-AB1-52	4/30/69	18-AB2-41	4/30/69	18-AB3- 6	2/ 7/69
18-A1 - 6	10/30/68	18-AB1-53	4/30/69	18-AB2-42.1	4/30/69	18-AB3- 7.1	2/ 7/69
18-B1 - 6.1	5/20/69	18-AB1-54	4/30/69	18-AB2-42.2	4/30/69	18-AB3- 7.2	2/ 7/69
18-A1 - 7	10/16/68	18-AB1-55	4/30/69	18-AB2-42.3	4/30/69	18-AB3- 8.1	2/ 7/69
18-B1 - 7.1	5/20/69	18-AB1-56	4/30/69	18-AB2-43	4/30/69	18-AB3- 8.2	2/ 7/69
18-A1 - 8	12/13/68	18-AB1-57	4/30/69	18-AB2-44	5/20/69	18-AB3- 9	2/ 7/69
18-B1 - 8.1	5/20/69	18-AB1-58	4/30/69	18-AB2-50.1	10/16/68	18-AB3-10	2/ 7/69
18-AB1- 9	5/20/69			18-AB2-50.2	10/16/68	18-AB3-11	2/ 7/69
18-AB1-10	5/20/69			18-AB2.51.1	2/ 7/69	18-AB3-12	2/ 7/69
18-AB1-11	5/20/69	18-AB2- 1	5/28/69	18-AB2-51.2	2/ 7/69	18-AB3-13	2/ 7/69
18-AB1-12	5/20/69	18-AB2- 2.1	2/ 7/69	18-AB2-52	10/30/68	18-AB3-14	2/ 7/69
18-A1 -13	12/13/68	18-AB2- 2.2	4/30/69	18-AB2-53	10/30/68		
18-A1 -14	12/13/68	18-AB2- 3	5/28/69	18-AB2-54.1	12/13/68		
18-A1 -15.1	2/ 7/69	18-AB2- 4	5/20/69	18-AB2-54.2	5/20/69	18-AB4- 1	5/ 1/69
18-AB1-16.1	2/ 7/69	18-AB2- 5	5/28/69	18-AB2-55	12/13/68	18-AB4- 2.1	2/ 7/69
18-AB1-17	2/ 7/69	18-AB2- 6	4/30/69	18-AB2-56	12/13/68	18-AB4- 2.2	2/ 7/69
18-AB1-18	2/ 7/69	18-AB2- 7	5/28/69	18-AB2-57.1	12/13/68	18-AB4- 3.1	2/ 7/69
18-AB1-19	2/ 7/69	18-AB2- 8	10/16/68	18-AB2-57.2	12/13/68	18-AB4- 3.2	2/ 7/69
18-AB1-20	2/ 7/69	18-AB2- 9	5/28/69	18-AB2-57.3	12/13/68	18-AB4- 3.3	2/ 7/69
18-AB1-21	2/ 7/69	18-AB2-10	2/ 7/69	18-AB2-57.4	12/13/68	18-AB4- 4.1	2/ 7/69
18-AB1-22	2/ 7/69	18-AB2-11	10/30/68	18-AB2-58	12/13/68	18-AB4- 4.2	2/ 7/69
18-AB1-23	5/28/69	18-AB2-12	4/30/69	18-AB2-59	2/ 7/69	18-AB4- 4.3	2/ 7/69
18-AB1-24	5/28/69	18-AB2-13	4/30/69	18-AB2-60	4/30/69	18-AB4- 4.4	2/ 7/69
18-AB1-25	5/28/69	18-AB2-14	5/20/69	18-AB2-61	4/30/69	18-AB4- 4.5	2/ 7/69
18-AB1-26	5/28/69	18-AB2-15	5/28/69	18-AB2-62.1	4/30/69	18-AB4- 5.1	2/ 7/69
18-AB1-27	4/30/69	18-AB2-16	5/28/69	18-AB2-62.2	4/30/69	18-AB4- 5.2	2/ 7/69
18-AB1-28	4/30/69	18-AB2-17	5/28/69	18-AB2-63	4/30/69	18-AB4- 5.3	2/ 7/69
18-AB1-29	4/30/69	18-AB2-18	5/28/69	18-AB2-64.1	4/30/69	18-AB4- 5.4	2/ 7/69
18-AB1-30	4/30/69	18-AB2-19	4/30/69	18-AB2-64.2	4/30/69	18-AB4- 5.5	2/ 7/69
18-AB1-31	4/30/69	18-AB2-20	4/30/69	18-AB2-65	4/30/69	18-AB4- 5.6	2/ 7/69
18-AB1-32	4/30/69	18-AB2-21	5/28/69	18-AB2-66.1	4/30/69	18-AB4- 5.7	2/ 7/69
18-AB1-33	4/30/69	18-AB2-22	5/20/69	18-AB2-66.2	4/30/69	18-AB4- 6.1	2/ 7/69
18-AB1-34	4/30/69	18-AB2-23	12/13/68	18-AB2-66.3	4/30/69	18-AB4- 6.2	2/ 7/69
18-AB1-35	4/30/69	18-AB2-24	5/28/69	18-AB2-67.1	4/30/69		
18-AB1-36	4/30/69	18-AB2-25	2/ 7/69	18-AB2-67.2	4/30/69		
18-AB1-37	4/30/69	18-AB2-26	5/28/69	18-AB2-68	4/30/69		
18-AB1-38	4/30/69	18-AB2-27	12/13/68	18-AB2-69	5/20/69		
18-AB1-39	4/30/69	18-AB2-28	12/13/68	18-AB2-70	5/20/69		
18-AB1-40	4/30/69	18-AB2-29	4/30/69	18-AB2-71	5/20/69		
18-AB1-41	4/30/69	18-AB2-30	12/13/68	18-AB2-72	5/20/69		
18-AB1-42	5/28/69	18-AB2-31	5/28/69	18-AB2-73	5/28/69		
18-AB1-43	5/28/69	18-AB2-32	5/28/69				
18-AB1-44	4/30/69	18-AB2-33	5/28/69				

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: DRAWING BOOK 18 - STRAP ANCHORS | DATE: 4/ 1/69

REVISIONS

Revised 5-1-69

18-AB1- 1	4/ 1/69	18-AB2- 1	4/ 1/69	18-AB2-50.1	10/16/68	18-AB3- 1	4/ 1/69	18-AB4- 1	4/ 1/69
18-A1 - 2	10/30/68	18-AB2- 2.1	2/ 7/69	18-AB2-50.2	10/16/68	18-AB3- 2	2/ 7/69	18-AB4- 2.1	2/ 7/69
18-A1 - 3	10/30/68	18-AB2- 2.2	2/ 7/69	18-AB2-51.1	2/ 7/69	18-AB3- 3.1	2/ 7/69	18-AB4- 2.2	2/ 7/69
18-A1 - 4	10/30/68	18-AB2- 3	12/13/68	18-AB2-51.2	2/ 7/69	18-AB3- 3.2	2/ 7/69	18-AB4- 3.1	2/ 7/69
18-A1 - 5	10/30/68	18-AB2- 4	12/13/68	18-AB2-52	10/30/68	18-AB3- 4.1	2/ 7/69	18-AB4- 3.2	2/ 7/69
18-A1 - 6	10/30/68	18-AB2- 6	10/30/68	18-AB2-53	10/30/68	18-AB3- 4.2	2/ 7/69	18-AB4- 3.3	2/ 7/69
18-A1 - 7	10/30/68	18-AB2- 7	12/13/68	18-AB2-54.1	12/13/68	18-AB3- 5	2/ 7/69	18-AB4- 4.1	2/ 7/69
18-A1 - 8	12/13/68	18-AB2- 8	10/16/68	18-AB2-54.2	12/13/68	18-AB3- 6	2/ 7/69	18-AB4- 4.2	2/ 7/69
18-A1 - 9	12/13/68	18-AB2- 9	12/13/68	18-AB2-55	12/13/68	18-AB3- 7.1	2/ 7/69	18-AB4- 4.3	2/ 7/69
18-A1 -10	12/13/68	18-AB2-10	2/ 7/69	18-AB2-56	12/13/68	18-AB3- 7.2	2/ 7/69	18-AB4- 4.4	2/ 7/69
18-A1 -11	12/13/68	18-AB2-11	10/30/68	18-AB2-57.1	12/13/68	18-AB3- 8.1	2/ 7/69	18-AB4- 4.5	2/ 7/69
18-A1 -12	12/13/68	18-AB2-12	2/ 7/69	18-AB2-57.2	12/13/68	18-AB3- 8.2	2/ 7/69	18-AB4- 5.1	2/ 7/69
18-A1 -13	12/13/68	18-AB2-13	2/ 7/69	18-AB2-57.3	12/13/68	18-AB3- 9	2/ 7/69	18-AB4- 5.2	2/ 7/69
18-A1 -14	12/13/68	18-AB2-20	12/13/68	18-AB2-57.4	12/13/68	18-AB3-10	2/ 7/69	18-AB4- 5.3	2/ 7/69
18-A1 -15.1	2/ 7/69	18-AB2-21	2/ 7/69	18-AB2-58	12/13/68	18-AB3-11	2/ 7/69	18-AB4- 5.4	2/ 7/69
18-AB1-16.1	2/ 7/69	18-AB2-22	10/30/68	18-AB2-59	2/ 7/69	18-AB3-12	2/ 7/69	18-AB4- 5.5	2/ 7/69
18-AB1-17	2/ 7/69	18-AB2-23	12/13/68	18-AB2-60	2/ 7/69	18-AB3-13	2/ 7/69	18-AB4- 5.6	2/ 7/69
18-AB1-18	2/ 7/69	18-AB2-24	2/ 7/69			18-AB3-14	2/ 7/69	18-AB4- 5.7	2/ 7/69
18-AB1-19	2/ 7/69	18-AB2-25	2/ 7/69					18-AB4- 6.1	2/ 7/69
18-AB1-20	2/ 7/69	18-AB2-26	12/13/68					18-AB4- 6.2	2/ 7/69
18-AB1-21	2/ 7/69	18-AB2-27	12/13/68						
18-AB1-22	2/ 7/69	18-AB2-28	12/13/68						
		18-AB2-29	12/13/68						
		18-AB2-30	12/13/68						
		18-AB2-31	12/13/68						
		18-AB2-32	12/13/68						
		18-AB2-33	2/ 7/69						
		18-AB2-34	2/ 7/69						
		18-AB2-35	2/ 7/69						
		18-AB2-36	2/ 7/69						
		18-AB2-37	2/ 7/69						
		18-AB2-38	2/ 7/69						
		18-AB2-39	2/ 7/69						

LICENSED PROFESSIONAL ENGINEER — No. 34360 — STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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18-AB1- 1	4/ 1/69	18-AB2- 1	4/ 1/69	18-AB2-50.1	10/16/68	18-AB3- 1	4/ 1/69	18-AB4- 1	4/ 1/69
18-A1 - 2	10/30/68	18-AB2- 2.1	2/ 7/69	18-AB2-50.2	10/16/68	18-AB3- 2	2/ 7/69	18-AB4- 2.1	2/ 7/69
18-A1 - 3	10/30/68	18-AB2- 2.2	2/ 7/69	18-AB2-51.1	2/ 7/69	18-AB3- 3.1	2/ 7/69	18-AB4- 2.2	2/ 7/69
18-A1 - 4	10/30/68	18-AB2- 3	12/13/68	18-AB2-51.2	2/ 7/69	18-AB3- 3.2	2/ 7/69	18-AB4- 3.1	2/ 7/69
18-A1 - 5	10/30/68	18-AB2- 4	12/13/68	18-AB2-52	10/30/68	18-AB3- 4.1	2/ 7/69	18-AB4- 3.2	2/ 7/69
18-A1 - 6	10/30/68	18-AB2- 5	10/30/68	18-AB2-53	10/30/68	18-AB3- 4.2	2/ 7/69	18-AB4- 3.3	2/ 7/69
18-A1 - 7	10/16/68	18-AB2- 7	12/13/68	18-AB2-54.1	12/13/68	18-AB3- 5	2/ 7/69	18-AB4- 4.1	2/ 7/69
18-A1 - 8	12/13/68	18-AB2- 8	10/16/68	18-AB2-54.2	12/13/68	18-AB3- 6	2/ 7/69	18-AB4- 4.2	2/ 7/69
18-A1 - 9	12/13/68	18-AB2- 9	12/13/68	18-AB2-55	12/13/68	18-AB3- 7.1	2/ 7/69	18-AB4- 4.3	2/ 7/69
18-A1 -10	12/13/68	18-AB2-10	2/ 7/69	18-AB2-56	12/13/68	18-AB3- 7.2	2/ 7/69	18-AB4- 4.4	2/ 7/69
18-A1 -11	12/13/68	18-AB2-11	10/30/68	18-AB2-57.1	12/13/68	18-AB3- 8.1	2/ 7/69	18-AB4- 4.5	2/ 7/69
18-A1 -12	12/13/68	18-AB2-12	2/ 7/69	18-AB2-57.2	12/13/68	18-AB3- 8.2	2/ 7/69	18-AB4- 5.1	2/ 7/69
18-A1 -13	12/13/68	18-AB2-13	2/ 7/69	18-AB2-57.3	12/13/68	18-AB3- 9	2/ 7/69	18-AB4- 5.2	2/ 7/69
18-A1 -14	12/13/68	18-AB2-20	12/13/68	18-AB2-57.4	12/13/68	18-AB3-10	2/ 7/69	18-AB4- 5.3	2/ 7/69
18-A1 -15.1	2/ 7/69	18-AB2-21	2/ 7/69	18-AB2-58	12/13/68	18-AB3-11	2/ 7/69	18-AB4- 5.4	2/ 7/69
18-AB1-16.1	2/ 7/69	18-AB2-22	10/30/68	18-AB2-59	2/ 7/69	18-AB3-12	2/ 7/69	18-AB4- 5.5	2/ 7/69
18-AB1-17	2/ 7/69	18-AB2-23	12/13/68	18-AB2-60	2/ 7/69	18-AB3-13	2/ 7/69	18-AB4- 5.6	2/ 7/69
18-AB1-18	2/ 7/69	18-AB2-24	2/ 7/69			18-AB3-14	2/ 7/69	18-AB4- 5.7	2/ 7/69
18-AB1-19	2/ 7/69	18-AB2-25	2/ 7/69					18-AB4- 6.1	2/ 7/69
18-AB1-20	2/ 7/69	18-AB2-26	12/13/68					18-AB4- 6.2	2/ 7/69
18-AB1-21	2/ 7/69	18-AB2-27	12/13/68						
18-AB1-22	2/ 7/69	18-AB2-28	12/13/68						
		18-AB2-29	12/13/68						
		18-AB2-30	12/13/68						
		18-AB2-31	12/13/68						
		18-AB2-32	12/13/68						
		18-AB2-33	2/ 7/69						
		18-AB2-34	2/ 7/69						
		18-AB2-35	2/ 7/69						
		18-AB2-36	2/ 7/69						
		18-AB2-37	2/ 7/69						
		18-AB2-38	2/ 7/69						
		18-AB2-39	2/ 7/69						

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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18-A1 - 2	10/30/68	18-AB2- 2.1	2/ 7/69	18-AB2-50.2	10/16/68	18-AB3- 2	2/ 7/69	18-AB4- 2.1	2/ 7/69
18-A1 - 3	10/30/68	18-AB2- 2.2	2/ 7/69	18-AB2-51.1	2/ 7/69	18-AB3- 3.1	2/ 7/69	18-AB4- 2.2	2/ 7/69
18-A1 - 4	10/30/68	18-AB2- 3	12/13/68	[illegible]		[illegible]	2/ 7/69	[illegible]	2/ 7/69
18-A1 - 5	10/30/68	18-AB2- 4	12/13/68	18-AB2-52	10/30/68	18-AB3- 4.1	2/ 7/69	18-AB4- 3.2	2/ 7/69
18-A1 - 6	10/30/68	18-AB2- 5	10/30/68	18-AB2-53	10/30/68	18-AB3- 4.2	2/ 7/69	18-AB4- 3.3	2/ 7/69
18-A1 - 7	10/16/68	18-AB2- 7	12/13/68	18-AB2-54.1	12/13/68	18-AB3- 5	2/ 7/69	18-AB4- 4.1	2/ 7/69
18-A1 - 8	12/13/68	18-AB2- 8	10/16/68	18-AB2-54.2	12/13/68	18-AB3- 6	2/ 7/69	18-AB4- 4.2	2/ 7/69
18-A1 - 9	12/13/68	18-AB2- 9	12/13/68	18-AB2-55	12/13/68	18-AB3- 7.1	2/ 7/69	18-AB4- 4.3	2/ 7/69
18-A1 -10	12/13/68	18-AB2-10	2/ 7/69	18-AB2-56	12/13/68	18-AB3- 7.2	2/ 7/69	18-AB4- 4.4	2/ 7/69
18-A1 -11	12/13/68	18-AB2-11	10/30/68	18-AB2-57.1	12/13/68	18-AB3- 8.1	2/ 7/69	18-AB4- 4.5	2/ 7/69
18-A1 -12	12/13/68	18-AB2-12	2/ 7/69	18-AB2-57.2	12/13/68	18-AB3- 8.2	2/ 7/69	18-AB4- 5.1	2/ 7/69
18-A1 -13	12/13/68	18-AB2-13	2/ 7/69	18-AB2-57.3	12/13/68	18-AB3- 9	2/ 7/69	18-AB4- 5.2	2/ 7/69
18-A1 -14	12/13/68	18-AB2-20	12/13/68	18-AB2-57.4	12/13/68	18-AB3-10	2/ 7/69	18-AB4- 5.3	2/ 7/69
18-A1 -15.1	2/ 7/69	18-AB2-21	2/ 7/69	18-AB2-58	12/13/68	18-AB3-11	2/ 7/69	18-AB4- 5.4	2/ 7/69
18-AB1-16.1	2/ 7/69	18-AB2-22	10/30/68	18-AB2-59	2/ 7/69	18-AB3-12	2/ 7/69	18-AB4- 5.5	2/ 7/69
18-AB1-17	2/ 7/69	18-AB2-23	12/13/68	18-AB2-60	2/ 7/69	18-AB3-13	2/ 7/69	18-AB4- 5.6	2/ 7/69
18-AB1-18	2/ 7/69	18-AB2-24	2/ 7/69			18-AB3-14	2/ 7/69	18-AB4- 5.7	2/ 7/69
18-AB1-19	2/ 7/69	18-AB2-25	2/ 7/69					18-AB4- 6.1	2/ 7/69
18-AB1-20	2/ 7/69	18-AB2-26	12/13/68					18-AB4- 6.2	2/ 7/69
18-AB1-21	2/ 7/69	18-AB2-27	12/13/68						
18-AB1-22	2/ 7/69	18-AB2-28	12/13/68						
		18-AB2-29	12/13/68						
		18-AB2-30	12/13/68						
		18-AB2-31	12/13/68						
		18-AB2-32	12/13/68						
		18-AB2-33	2/ 7/69						
		18-AB2-34	2/ 7/69						
		18-AB2-35	2/ 7/69						
		18-AB2-36	2/ 7/69						
		18-AB2-37	2/ 7/69						
		18-AB2-38	2/ 7/69						
		18-AB2-39	2/ 7/69						

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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	DRAWING BOOK 18 - STRAP ANCHORS	2/ 3/69

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18-A1 - 2	10/30/68	18-AB2-57.1	12/13/68
18-A1 - 3	10/30/68	18-AB2-57.2	12/13/68
18-A1 - 4	10/30/68	18-AB2-57.3	12/13/68
18-A1 - 5	10/30/68	18-AB2-57.4	12/13/68
18-A1 - 6	10/30/68	18-AB2-58	12/13/68
18-A1 - 7	10/16/68		
18-A1 - 8	12/13/68		
18-A1 - 9	12/13/68		
18-A1 -10	12/13/68		
18-A1 -11	12/13/68		
18-A1 -12	12/13/68		
18-A1 -13	12/13/68		
18-A1 -14	12/13/68		

18-AB2- 1	2/ 3/69
18-AB2- 2	10/16/68
18-AB2- 2.2	12/13/68
18-AB2- 3	12/13/68
18-AB2- 4	12/13/68
18-AB2- 5	10/30/68
18-AB2- 7	12/13/68
18-AB2- 8	10/16/68
18-AB2- 9	12/13/68
18-AB2-10	10/16/68
18-AB2-11	10/30/68
18-AB2-20	12/13/68
18-AB2-21	10/30/68
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LICENSED PROFESSIONAL ENGINEER
LEWIS E. ROBERTSON
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UNIVERSITY OF THE STATE OF NEW MEXICO

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: DRAWING BOOK 18 - STRAP ANCHORS | DATE: 1/ 3/69

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LICENSED PROFESSIONAL ENGINEER ☆ LESLIE E. ROBERTSON ☆ No. 34360 ☆ UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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GENERAL NOTES

1. DETAIL INDICATED 50A IS DETAIL 50A SHOWN ON DRAWING 8-AB2-50, DETAIL INDICATED 8.1 IS DETAIL 8.1 SHOWN ON DRAWING 8-AB2-8.

LICENSED PROFESSIONAL ENGINEER LESLIE E. ROBERTSON No. 34360 UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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GENERAL NOTES

1. DETAIL INDICATED 50A IS DETAIL 50A SHOWN ON DRAWING 8-AB2-50, DETAIL INDICATED 8.1 IS DETAIL 8.1 SHOWN ON DRAWING 8-AB2-8.

REGISTERED PROFESSIONAL ENGINEER LESLIE E. ROBERTSON UNIVERSITY OF THE STATE OF NEW YORK No. 34360

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
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GENERAL NOTES

1. DETAIL INDICATED 50A IS DETAIL 50A SHOWN ON DRAWING 6-AB2-50, DETAIL INDICATED 8.1 IS DETAIL 8.1 SHOWN ON DRAWING 6-AB2-8.

LICENSED PROFESSIONAL ENGINEER LESLIE E. ROBERTSON No. 34300 UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: STRAP ANCHORS - KEY PLANS - INDEX & GENERAL NOTES | DATE: 2/3/69

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GENERAL NOTES

1. DETAIL INDICATED 50A IS DETAIL 50A SHOWN ON DRAWING 8-AB2-50, DETAIL INDICATED 8.1 IS DETAIL 8.1 SHOWN ON DRAWING 8-AB2-8.

LICENSED PROFESSIONAL ENGINEER — LAWRENCE E. ROBERTSON — NO. 54760 — STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
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GENERAL NOTES

1. DETAIL INDICATED 5CA IS DETAIL 5CA SHOWN ON DRAWING S-AB2-50, DETAIL INDICATED 8.1 IS DETAIL 8.1 SHOWN ON DRAWING S-AB2-8.

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — NO. 34960 — UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 54350 — UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34260 — UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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LICENSED PROFESSIONAL ENGINEER
HARRIE E. ROBERTSON
No. 34260
UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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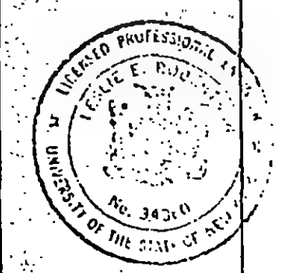

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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REGISTERED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

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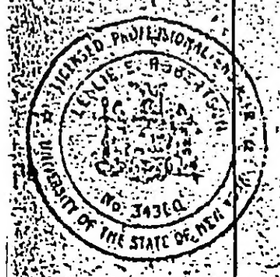

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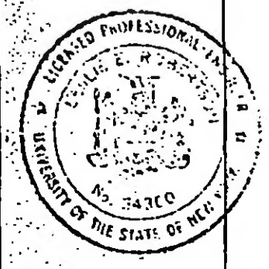

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